

What Is Claimed Is:

1. Digital image recording process in which a color toner image made of toner layers having different colors is transferred onto an image receiving substrate and then fused and fixed onto the image receiving substrate by  
5 impingement with electromagnetic radiation, characterized in that, in order to produce the color black at least one toner layer is used that has similar absorption properties, at least for one wavelength within a predetermined wavelength range for the electromagnetic radiation, as the other toner layers that are used.
- 10 2. Process according to claim 1, characterized in that, the predetermined wavelength range is the range from 0.8  $\mu\text{m}$  to 10  $\mu\text{m}$ .
3. Process according to claim 1, characterized in that, the  
15 predetermined wavelength range is selected such that the energy of the electromagnetic radiation is predominately absorbed by the image receiving substrate and not by the toner layers.
4. Process according to claim 1, characterized in that, the  
20 predetermined wavelength range is the range from 0.8  $\mu\text{m}$  to 3  $\mu\text{m}$ .
5. Process according to claim 1, characterized in that, the color black is produced by a combination of different colored toner layers.
6. Process according to claim 1, characterized in that, the color  
25 black is formed or formed together with at least one toner layer that contains a combination of different colored color pigment particles.
7. Process according to claim 1, characterized in that, the color  
30 black is formed or formed together with at least one toner layer that is not pigmented with carbon black.

FOOTNOTES

8. Process according to claim 1, characterized in that, the color black is formed or formed together with at least one toner layer that contains a black pigment.

5 9. Process according to claim 1, characterized in that, the color black is formed or formed together with at least one toner layer that has a carbon black portion of less than 2%.

10 10. Process according to claim 1, characterized in that, the color black is formed or formed together with at least one toner layer that contains neutral gray pigments free of carbon black.

11. Device for performing the process of claim 1.

15 12. Toner for a color printer and/or copier device, whereby the toner is suitable to produce the color black and provided for the purpose of being fused by electromagnetic radiation and fixed onto an image carrier substrate, characterized in that, the toner has similar absorption properties, during irradiation with electromagnetic radiation with at least one wavelength out of a predetermined  
20 wavelength range, as other toners that are provided to produce colors other than black.

25 13. Toner according to claim 12, characterized in that, the predetermined wavelength range is the range from 0.8  $\mu\text{m}$  to 10  $\mu\text{m}$ .

14. Toner according to claim 12, characterized in that, the predetermined wavelength range is the range from 0.8  $\mu\text{m}$  to 3  $\mu\text{m}$ .

30 15. Toner according to claim 13, characterized in that, when it is irradiated with electromagnetic radiation with wavelengths in the IR range below approximately 5  $\mu\text{m}$ , it absorbs less than 10% of the energy.

16. Toner according to claim 13, characterized in that, the toner contains a combination of different colored particles

5 17. Toner according to claim 13, characterized in that, the toner contains a combination of different colored particles that are provided to produce the colors cyan, magenta, and yellow.

10 18. Toner according to claim 13, characterized in that, it has no carbon black.

19. Toner according to claim 13, characterized in that, it contains a portion of carbon black of less than 2%.

15 20. Toner according to claim 13, characterized in that, it contains neutral gray pigments.

20 21. Toner according to claim 13, characterized in that, it is formed by several toner layers with different colors after it is transferred onto the image receiving substrate.

22. Toner according to claim 13, characterized in that, the toner layers with different colors contain the colors cyan, magenta, and yellow.

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